







AGENDA

ICEMA MEDICAL ADVISORY COMMITTEE

June 21, 2018

1300

Purpose: Information Sharing

Meeting Facilitator: Stephen Patterson

Timekeeper: Suzee Kolodzik Record Keeper: Suzee Kolodzik

	AGENDA ITEM	PERSON(S)	DISCUSSION/ACTION
I.	Welcome/Introductions	Stephen Patterson	
II.	Approval of Minutes	Stephen Patterson	Discussion/Action
III.	Discussion/Action Items	•	
	A. Standing EMS System Updates		
	1. Trauma Program	1. Suzee Kolodzik/	1. Discussion
	2. STEMI Program	Loreen Gutierrez	
	3. Stroke Program	2. Suzee Kolodzik/	2. Discussion
	4. SAC Update	Loreen Gutierrez	
		3. Suzee Kolodzik/	3. Discussion
		Loreen Gutierrez	
		4. Kevin Parkes/	4. Discussion
		Tom Lynch	
	B. EMS Trends		
	 TXA Study Update 	1. Reza Vaezazizi/	1. Discussion
		Michael Neeki	
	2. Out of Hospital Cardiac Arrest	2. Reza Vaezazizi	2. Discussion
	Initiative		
	3. Ketamine Study Update	3. Reza Vaezazizi	
	C. Dopamine Shortage	Reza Vaezazizi	Discussion/Action
	D. HEMS Utilization	Reza Vaezazizi	Discussion/Action
	E. Protocol Review Process	Pam Martinez	Discussion
	F. 2018 Skills Manual	Ann Sandez	Discussion/Action
IV.	Public Comment Period	Stephen Patterson	Discussion
V.	Future Agenda Items		
VI.	Next Meeting Date: August 23, 2018		
VII.	Adjournment		
VIII.	Closed Session		
	A. Case Reviews		
	B. Loop Closure Cases		









MINUTES

ICEMA MEDICAL ADVISORY COMMITTEE

February 22, 2018

1300

	AGENDA ITEM	DISCUSSION/FOLLOW UP	RESPONSIBLE PERSON(S)
I.	WELCOME/INTRODUCTIONS	Meeting was called to order at 1300.	Stephen Patterson
II.	APPROVAL OF MINUTES	The December 19, 2017, minutes were approved.	Stephen Patterson
		Motion to approve. MSC: Seth Dukes/Susie Moss APPROVED Ayes: Paul Savino, Michael Neeki, Seth Dukes, Leslie Parham, Joe Powell, Susie Moss,	
		Stephen Patterson, Kevin Parkes	
III.	DISCUSSION ITEMS		
	A. Standing EMS System Updates		
	1. Trauma Program	No update.	Suzee Kolodzik/ Loreen Gutierrez
	2. STEMI Program	No update.	Suzee Kolodzik/ Loreen Gutierrez
	3. Stroke Program	Discussed field triage for EMS personnel transporting to Thrombectomy Centers.	Suzee Kolodzik/ Loreen Gutierrez
	4. SAC Update	Committee requested that APOD patient criteria be expanded to include patients with hep lock and who received Zofran.	Michael Neeki
	B. EMS Trends	•	
	TXA Study Update	TXA study is being prepared for publication. Data will be presented at the EMS Commission meeting on March 21, 2018.	Reza Vaezazizi/ Michael Neeki
	2. Out of Hospital Cardiac Arrest Initiative	ImageTrend began uploading data into CARES registry starting January 1, 2018. Specialty hospitals in the ICEMA region have agreed to enter patient outcome into CARES registry. Resuscitation Academy, in partnership with HeartRescue, will be a regional approach between ICEMA and REMSA. It will be held in June at REMSA with a two (2) day format.	Reza Vaezazizi

	C. Ketamine Trail Study	Ketamine Trial Study start date will be April 1, 2018.	Reza Vaezazizi
	D. APOD Review	Clarification memo regarding APOD patient criteria was sent out.	Reza Vaezazizi
	E. Nasotracheal Intubation	Nasotracheal Intubation data was presented and discussed.	Stephen Patterson
		Motion to remove the skill from the ICEMA region. MSC: Michael Neeki/Paul Savino APPROVED	
		Ayes: Paul Savino, Michael Neeki, Seth Dukes, Stephen Patterson, Kevin Parkes Nays: Leslie Parham, Joe Powell, Susie Moss	
	F. Behavioral Emergencies/Excited Delirium	Presented new behavioral emergencies protocol and discussed changes to ICEMA Reference #9070 - Applying Patient Restraints Guidelines. Protocols will be sent to the MAC members for review.	Reza Vaezazizi
	G. ePCR Quality Improvement Project	Discussed system-wide issue with incomplete or missing ePCRs. The Committee requested clarification on the ePCR requirements.	Reza Vaezazizi
V.	PUBLIC COMMENT		
VI.	FUTURE AGENDA ITEMS	- Mandatory Paramedic Skills Verification	
VII.	NEXT MEETING:	April 26, 2018	
VIII.	ADJOURNMENT	Meeting adjourned at 1448.	

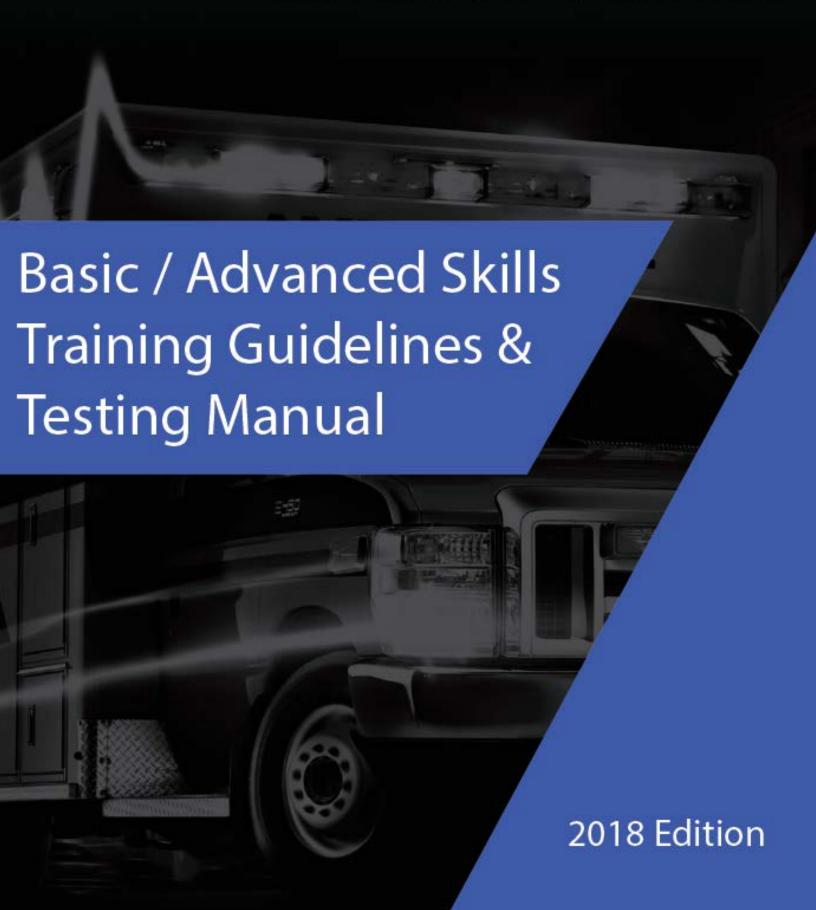
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Attendees:

NAME	MAC POSITION	EMS AGENCY STAFF	POSITION
☑ P. Brian Savino - LLUMC☑ VACANT	Trauma Hospital Physicians (2)	□ Reza Vaezazizi, MD	Medical Director
☐ Melanie Randall - LLUMC	Pediatric Critical Care Physician		EMS Administrator
☐ VACANT	Non-Trauma Base Physician s (2)	☐ Loreen Gutierrez	Specialty Care
☐ Phong Nguyen - RDCH			Coordinator
☐ Aaron Rubin - Kaiser	Non-Base Hospital Physician	⊠ Ron Holk	EMS Coordinator
	Public Transport Medical	□ Danielle Ogaz	Senior EMS Specialist
(Chair)	Director		
	Private Transport Medical	⊠ Suzee Kolodzik	EMS Specialist
	Director		
☐ VACANT	Fire Department Medical Director		EMS Specialist
☐ Joy Peters - ARMC	EMS Nurses		
□ Leslie Parham - Chino	EMS Officers		
Valley FD			
	Public Transport Medical Rep		
	(Paramedic/RN)		
Susie Moss - AMR	Private Transport Medical Rep		
	(Paramedic/RN)		
☐ Lance Brown - LLUMC	Specialty Center Medical Director		
☐ VACANT	Specialty Center Coordinator		
☐ Troy Pennington - Mercy	Private Air Transport Medical		
Air	Director		
	Public Air Transport Medical		
Sheriff's Air Rescue	Director		
☐ Michael Guirguis - SB	PSAP Medical Director		
Comm Center			
☐ Lisa Davis - Sierra Lifeflight			
☐ Rosemary Sachs	Mono County Representative		
⊠ Kevin Parkes - SARH	SAC Liaison		
☐ Debbie Bervel - Sheriff's	ICEMA Medical Director		
Air Rescue	Appointee		

San Bernardino County

EMS Officer's Association



Foreword from EMS Officers

Greetings Colleagues,

This basic and advanced skills training guidelines and testing manual is for you! The San

Bernardino County EMS Officer's association has created and supports this living and breathing

document. This manual is supported by industry standards and resources (NREMT and ICEMA

protocols/standards) utilized in educational institutions and organizations that set a national standard

for Emergency Medical Services. As this is a living document, annual revisions will be updated based on

feedback from users and administrators who utilize this for education and application purposes. Please

don't hesitate to forward concerns to your respective EMS Officer representative to help uphold the

industry standard for all.

Best Regards,

San Bernardino County EMS Officer's Association

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12 Lead Electrography

INDICATIONS

Patient with complaint of chest pain, with suspected or at risk of having an myocardial infarction

CONTRAINDICATIONS (Relative)

- Uncooperative patient
- Life-threatening conditions
- 12 Lead will impede immediate patient care needs

CONSIDERATIONS

Consider 12-lead ECG with atypical presentations (figure 2):

Elderly

Female

Diabetic

Unexplained or near syncope

Shortness of Breath

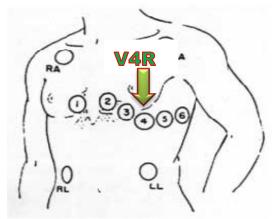
Generalized weakness (over fifty (50) years of age)

Profound weakness, acute onset

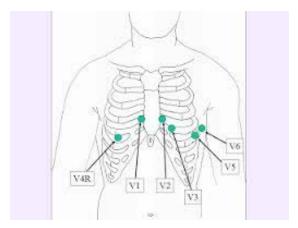
Upper abdominal discomfort

** For suspected right sided MI, remove V4 lead and place it at the 5th intercostal space midclavicular line on the right side of the chest. Figure 1.

Figure 1



http://www.ems12lead.com/2008/10/17/



http://nuclearcardiologyseminars.com/electrocardiography

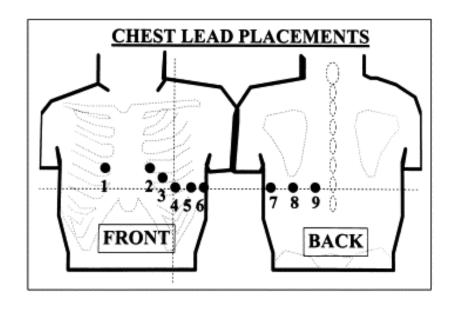
12-lead-ecg-lead-placement-diagrams/

Figure 2

MEDICAL TRAINING COM						
I Lateral	aVR		V1 Septal		V4 Anterior	
II Inferior	aVI	aVL Lateral V2 Septal			V5 Lateral	
III Inferior	aVF	Inferior	erior V3 Anterior		V6 Lateral	
SITE		FAC	CING		RECIPROCAL	
SEPTAL		V1, V2		NO	NONE	
ANTERIOR		V3, V4		NONE		
ANTEROSEPTAL		V1, V2, V3, V4		NONE		
LATERAL		I, aVL, V5, V6		II, III, aVF		
ANTEROLATERAL		I, aVL, V3, V4, V5, V6		II, III, aVF		
INFERIOR		II, III, aVF		I, aVL		
POSTERIOR		NONE		V1,	V1, V2, V3, V4	

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*15 Lead Placement



12 Lead Electrography

Examinee : Date:			_	
Examin	er:	Pass Pass/Counsel	Fail	
Equipm	nent:			
•	12-lead electrodes Cardiac monitor with 12-lead capabilities Razor (as needed)			
	ment/Treatment indicators:			
• Passumin of Compression of Compres	Indications atient with complaint of chest pain, with aspected or at risk of having an myocardial farction onsider 12-lead ECG with atypical resentations: derly emale abetic nexplained or near syncope nortness of Breath eneralized weakness (over fifty (50) years of ge) rofound weakness, acute onset pper abdominal pain	 Contraindicate Uncooperative patient Life-threatening condition Delay caused by obtain compromise care of the 12 lead will impede improve care needs 	t tions ning ECG o nat patient	t
Proced	ure:		Yes	No
1.	Scene safety awareness/PPE usage			
2.	States indications/contraindications			
3.	Prepares/checks equipment			
4.	Explains procedure			
5.	Places the patient in a preferred position of comfort (if the patient cannot tolerate being supine, obtain the ECG in Semi-Fowlers or a more upright position)			
6.	Instructs the patient to place their arms down by t shoulders	heir side and to relax their		
7.	Makes sure the patient's legs are uncrossed			
8.	Dries the skin if it's moist or diaphoretic			

9.	Shaves any hair that interferes with electrode placement	
10.	Places precordial lead electrodes to patient per manufacturer's directions (Figure 1)	
11.	Records and print ECG findings per manufacturer's directions	
12.	Paramedic interprets ECG, report and document findings (Figure 2) (Step 12 may be omitted with EMT only exam)	
13.	Reassess/Document:	
Notes:	· · · · · · · · · · · · · · · · · · ·	

Axial Spinal Immobilization of a Seated Patient

INDICATIONS

Suspected spinal injuries; complaints of spinal pain

Determine if the patient meets criteria for full axial spinal precautions by following the indicators of the following acronym (NSAID):

- N Neuro deficit present?
- **S** Spinal tenderness?
- A Altered mental status?
- I Intoxication?
- **D** Distracting injury?

CONTRAINDICATIONS

No contraindications

CONSIDERATIONS

For pediatric patients: If the level of the patient's head is greater than that of the torso, use an approved pediatric spine board with a head drop or arrange padding in the board to keep the entire lower spine and pelvis in line with the cervical spine and parallel to the board.

For patients being placed on a backboard from the standing or sitting position, consider providing comfort by placing padding on the board.

Any elderly or other adult patients, who may have a spine that is normally flexed forward, should be stabilized in the patient's normal anatomical position considering spinal curvatures.

When a pregnant patient is placed in axial spinal stabilization, the board should be elevated at least four (4) inches on the left side to decrease pressure on the Inferior Vena Cava.

Certain patients may not tolerate normal stabilization positioning due to the location of additional injuries. These patients may require stabilization in their position of comfort. Additional material may be utilized to properly stabilize these patients while providing for the best possible axial spinal alignment.

ALS personnel may remove patients placed in axial spinal stabilization by first responders and BLS personnel if the patient does not meet the NSAID indicators after a complete assessment and documentation on the patient care report should be completed.

Axial Spinal Immobilization of a Seated Patient

Examine	e: D	ate:			
Examiner	:: Pa	iss 🗍	Pass/Counsel	Fail 🗌	
Equipme			, <u> </u>		
• Ba	ervical collar ackboard adding (as indicated)		ackboard straps oinal motion restrictio	on device	
Assessme	ent/Treatment indicators:				
	<u>Indications</u>		Contraindicat	<u>ions</u>	
	er NSAID acronym	•	Per NSAID acronyn	n	
Procedur				Yes	No
1. So	ene safety awareness/PPE usage				
2. St	ates indications/contraindications				
3. Pr	repares/checks equipment				
4. Ex	xplains procedure				
5. Di	irects assistant to place/maintain head in the neutral	, in-line	position		
6. Re	eassesses motor, sensory, and circulatory function in	each ex	xtremity		
7. Ap	oplies appropriately sized extrication/cervical collar				
8. Po	ositions the immobilization device appropriately				
Λ Ι	irects movement of the patient onto the backboard very tegrity of the spine	without	compromising the		
10. Ap	oplies padding to voids between the torso and the de	evice as	necessary		
11. Im	nmobilizes the patient's torso to the device				
12. Ev	valuates and pads behind the patient's head as neces	sary			
13. Im	nmobilizes the patient's head to the device				
14. Se	ecures the patient's arms and legs to the device				
15. Re	eassess/Document: Patient Reassessment of motor, sensory, and circulatory for Patient response/tolerance to intervention	unction	in each extremity		
Notes:					

Axial Spinal Immobilization of a Supine Patient

INDICATIONS

Determine if the patient meets criteria for full axial spinal precautions by following the indicators of the following acronym (NSAID):

- N Neuro deficit present?
- **S** Spinal tenderness?
- A Altered mental status?
- I Intoxication?
- **D** Distracting injury?

CONTRAINDICATIONS

• Penetrating trauma without any NSAID indicators are not candidates for spinal immobilization using long board.

CONSIDERATIONS

Maintain spinal alignment on the gurney, or using spinal axial immobilization on an awake, alert and cooperative patient, without the use of a rigid spine board.

For patients being placed in spinal immobilization, provide comfort by placing padding on board

For standing patients with the complaint of neck or back pain; consider placement on a backboard while the patient remains in the standing position, executing the standing takedown technique.

For pediatric patients: use an approved pediatric spine board with a head drop or arrange padding on the board to keep the entire lower spine and pelvis in line with the cervical spine and parallel to the board. All intubated neonatal and pediatric patients should be placed in full axial spinal immobilization.

Any elderly or other adult patients should be stabilized in patient's normal anatomical position.

Pregnant patients placed in axial spinal stabilization, board should be elevated at least four (4) inches on the left side to decrease pressure on the Inferior Vena Cava.

Certain patients may not tolerate normal stabilization positioning due to the location of additional injuries. These patients may require stabilization in their position of comfort.

ALS personnel may remove patients placed in axial spinal stabilization by first responders and BLS personnel if the patient does not meet the NSAID indicators after assessment.

- ** Age of the patient, co-morbidities (osteoporosis, etc.) should always be a priority in the decision-making process.
- ** The long backboard (LBB) is an extrication tool, whose purpose is to facilitate the transfer of a patient to a transport stretcher and is not intended, or appropriate for achieving spinal stabilization. Judicious application of the LBB for purposes other than extrication necessitates that healthcare providers ensure the benefits outweigh the risks. If a LBB is applied for any reason, patients should be removed as soon as it is safe and practical. LBB does not need to be reapplied on interfacility transfer (IFT) patients.

Axial Spinal Immobilization of a Supine Patient

Examinee:Examiner:		Date: Pass/Counsel Pass	Fail			
Equipment:						
• Cervic	al collar	 Backboard straps 				
 Backb 		 Head bed/ towel rolls / 	head bloc	:ks		
	ng (as indicated)					
Assessment/	Treatment indicators:	0				
• Dor NO	Indications	Contraindications Por NSAID acronym				
Perins	SAID acronym	Per NSAID acronymPenetrating trauma without any NSAID				
		indicators	at any 1457	מור		
Procedure:			Yes	No		
1.	Scene safety awareness/PPE usage					
	States indications/contraindications					
2.	·		Ш			
3.	Prepares/checks equipment					
4.	Explains procedure					
5.	Directs assistant to place/maintain head in the neutral, in-line position					
6.	Reassesses motor, sensory, and circulatory function in each extremity					
7.	Applies appropriately sized extrication/cervical collar					
8.	Positions the immobilization device appropriately					
9.	Directs movement of the patient onto the backboard without compromising the integrity of the spine					
10.	Applies padding to voids between the torso	and the device as necessary				
11.	Immobilizes the patient's torso to the device	ce				
12.	Evaluates and pads behind the patient's he	ad as necessary				
13.	Secures the patient's arms and legs to the o	device				
14.	Immobilizes the patient's head to the device	e				
15.	Reassess/Document:					
Notes:	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		I			

Bleeding Control/Shock Management

INDICATIONS

Patient with blunt or penetrating trauma with active hemorrhage

CONTRAINDICATIONS (Relative)

• No contraindications

CONSIDERATIONS

Cut and expose wound
Consider proper equipment needed for specific hemorrhage control
Consider appropriate manufacturer's guidelines for specific tourniquet application
Consider proper equipment needed for the treatment of shock
Destination, time and specialty center required, need for HERT team

** Consider oxygen administration (follow oxygen administration guidelines)

Bleeding Control/Shock Management Skills Test

	3			
	inee : Date:			
Exami			Fail	
Equip	ment:			
•	BSI equipment • Blanket			
•	Absorbent material • Tourniquets (Swat-	T, Sof	ft-T)	
•	Bandaging material • Quik-clot for junction	onal v	vounds	
•	Oxygen/ Oxygen delivery system • Israli bandages – pr	essur	e dress	ings
Assess	sment/Treatment indicators:			
	<u>Indications</u> <u>Contraind</u>	icatio	ons	
•	Signs of active hemorrhage • No contraind			
Proce	edure:		Yes	No
1.	Scene safety awareness/PPE usage			
2.	Applies direct pressure to the wound			
	The examiner advises "The wound continues to bleed."			
3.	Applies tourniquet appropriately			
	The examiner advises "The patient is now exhibiting signs and symptoms of hyp	operf	fusion."	
4.	Properly positions the patient			
5.	Administers high concentration oxygen (According to NAEMT and/or ICEMA protocol)			
6.	Initiates steps to prevent heat loss from the patient			
7.	Indicates the need for immediate transport			
8.	Reassess/Document:			
Notes				

Blood Glucose Analysis

INDICATIONS

- Altered mental status
- Neurological dysfunction
- History of diabetes
- Vague or general symptoms or complaints
- Need to reassess following treatment of hypoglycemia

CONTRAINDICATIONS (Relative)

Recognize contraindications to blood sampling site selection:

- Signs of local infection
- Wounds or bleeding

CONSIDERATIONS

Reassess unusual and/or unexpected glucometer results

Blood Glucose Analysis

Examii Examii	nee: Date: ner: Pass	ınsel 🗌	Fail	_
Equip	ment:			
•	BSI Equipment / PPE • Sharps con Glucometer • Lancet(s) Alcohol preps • Bandage	tainer		
Assess	sment/Treatment indicators:			
NeHisVa	Indications Exercit Mental Status Exercit Me	<u>Co</u>	ntraindicat (Relative) Local infect Wounds or bleeding at sampling si	tion,
Proced	dure:		Yes	No
1.	Scene safety awareness/PPE usage			
2.	States indications/contraindications			
3.	Gathers appropriate equipment glucometer, test strip, lancet, alcohol pre	р		
4.	Explains procedure to patient			
5.	Prepares glucometer: inserts test strip, ensure glucometer is ready to receblood	eive		
Select appropriate site Adult / Pediatric Fingertip side Infant (less than one year) Heel of foot				
7.	Use alcohol to clean site, allow site to dry completely before utilizing lance	et		
8.	Obtain blood sample: prick the site with lancet			
9.	Allow blood drop to form, transfer blood sample to the test strip fol manufacturer's guidelines	lowing		

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10.	Place lancet in sharps container & apply bandage to site	
11.	Announce / Document glucometer result	
Notes		

Cardiac Arrest and AED

INDICATIONS

Cardiac/Respiratory Arrest

CONTRAINDICATIONS

- DNR
- POLST directives
- End of Life Option Act

CONSIDERATIONS:

Ensure enough space to properly perform CPR with several rescuers Remove patient from standing water Place patient in supine position Determine probable cause of the arrest

** AED patches should not be placed over implanted medical devices, jewelry or transdermal medication patches

Cardiac Arrest and AED

	0.1				
Fyami	inon	Dot			
Examinee: Date: Pass/Counsel I					_
	ment:	233 <u> </u>	1 d33/ COUTISCT	Fail	
-40.16	PPE	• AE	D		
Asses	sment/Treatment indicators:				
	<u>Indications</u>	T	Contraindicati	ons	
•	Cardiac/Respiratory arrest	•	DNR		
		•	POLST directives		
		•	End of Life Option A	Act	
Proce	dure:			Yes	No
1.	Scene safety awareness/PPE usage				
2.	States indications/contraindications				
3.	Prepares/checks equipment				
4.	Explains procedure				
5.	Attempts to obtain information about event from bys				
6.	Checks patient responsiveness				
7.	Assesses patient for signs of breathing (agonal, apneio				
8.	Checks carotid pulse for no less than 5, no more than				
9.	Immediately begins chest compressions with appropriallowing for complete chest recoil				
10.	Requests additional assistance (as needed)				
11.	Performs 2 minutes (5 cycles) of high quality (1 or 2-pe				
12.	After 2 minutes, switches out rescuer performing com				
13.	When AED arrives, first rescuer turns it on				
14.	Follows initial AED prompts				
15.	Correctly attaches pads to patient ** Avoids placing pads over implanted medical device				
16.	Follows additional AED prompts to clear and analyze r	hythm			
17.	If shock advised, ensures the patient is clear of all byst per AED instructions	tanders a	and provides shock		

[23]

18.	Ensures effective chest compressions are immediately resumed	
19.	Reassess/Document: • Patient	
13.	Patient response/tolerance to interventions	
Notes		

Intramuscular Medication Administration

INDICATIONS

- Unable to establish IV for medication administration
- Desired route for administration of medication

CONTRAINDICATIONS (Relative)

If any of the following are noted at the site select a different site:

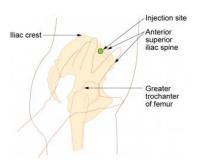
- Masses
- Tenderness
- Bruising
- Infection
- Abrasions
- Swelling

Intramuscular Medication Administration

Exami Exami	nee:	Pass	Date:	Fail	_
Equip		Pass	Pass/Couriser		
•	BSI equipment Syringe Alcohol Prep	•	Safety Needles (20-25g in length) Bandage	; 5/8 to 1 ;	½ inches
Assess	ment/Treatment indicators:				
•	Indications Unable to establish IV for medication administration Desired route for administration of medication		 Contraindications (remaindications) Masses Tenderness Bruising Infection Abrasions Swelling 	elative to s	site <u>)</u>
Proced	dure:			Yes	No
1.	Scene safety awareness/PPE usage				
2.	States indications/contraindication				
3.	Prepares and checks equipment				
4.	Explains procedure to patient/family				
5.	Inspects desired site for contraindications				
6.	Chooses appropriate medication				
7.	Inspect site for sufficient muscle mass				
8.	Withdraws medication				
8a.	Verbalizes no more than recommended solution pe Deltoid (Upper Arm) (2ml) Vastus Lateralis (Anterior Thigh) (3mL) Ventrogluteal (Lateral Hip) (3mL)				
9.	Position patient and prepare site				
10.	Remove air from needle (Push slightly on the plunge the level of the bevel of the needle)				
11.	Support the muscle to be injected (Without contamtight with non-dominant hand)				
12.	Insert needle with a dart like motion into site at 90° angle and stabilize hub of syringe and aspirate for no blood return (no blood return indicates proper placement)				

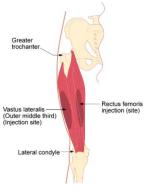
13.	Slowly inject medication to reduce pain and tissue trauma	
14.	Withdraw needle and properly disposes needle and syringe	
15.	Applies direct pressure, massages site and apply bandage as needed	
13.	Reassess/Document:	
Notes:		

Ventrogluteal



Recommended needle length is based on patient weight and body mass index. Thin adult may require a 16 mm to 25 mm (5/8 to 1 inch) needle, average adult may require a 25 mm (1 inch) needle, larger adult (over 70 kg) may require a 25 mm to 38 mm (1 to 1 1/2 inch) needle. Children and infants will require shorter needles.

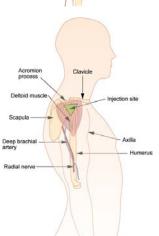
For the ventrogluteal muscle of an average adult, give up to 3 ml of medication.



Vastus Lateralis

Recommended needle length for an adult is 25 mm to 38 mm (1 to 1 1/2 inch). A smaller gauge needle (22 to 25 gauge) should be used with children.

The maximum amount of medication for a single injection is 3 ml.



Deltoid

Select needle length based on age, weight, and body mass. In general, for an adult male weighing 60 to 118 kg (130 to 260 lbs), a 25 mm (1 inch) needle is sufficient. For women under 60 kg (130 lbs), a 16 mm (5/8 inch) needle is sufficient, while for women between 60 and 90 kg (130 to 200 lbs), a 25 mm (1 inch) needle is required. A 38mm (1 1/2 inch) length needle may be required for women over 90 kg (200 lbs) for a deltoid IM injection. The maximum amount of medication for a single injection is 1 ml.



Dorsalgluteal muscle (Gluteus Maximus)

NEVER give an IM injection in the dorsogluteal muscle.

If the needle hits the sciatic nerve, the patient may experience <u>partial or</u> <u>permanent</u> paralysis of the leg.

AJN, American Journal of Nursing, April 1996, Volume: 96 Number 4, page 53 retrieved from: https://www.nursingcenter.com/journalarticle?Article_ID=102892&Journal_ID=54030&Issue_ID=54821

https://opentextbc.ca/clinicalskills/chapter/6-8-iv-push-medications-and-saline-lock-flush/

Data source: Berman & Snyder, 2016; Davidson & Rourke, 2014; Ogston-Tuck, 2014a; Perry et al., 2014

Intranasal Medication Administration

INDICATIONS

Unable to establish IV for medication administration

Desired route for administration of medication

CONTRAINDICATIONS (Relative)

- Significant nasal trauma
- Significant amount of blood or dried mucous discharge

Intranasal Medication Administration

Examinee: Date:					
	Examiner: Pass Pass/Counsel Fail Equipment:				
•	BSI Equipment • Mucosal Atomization other IN medication of the second o		AD) or		
Assess	sment/Treatment indicators:				
•	IndicationsContraindicUnable to establish IV for medication• Significant nasaladministration• Significant amouDesired route for administration of medicationmucous discharg	trauma nt of blood	l or dried		
Proce		Yes	No		
1.	Scene safety awareness/PPE usage				
2.	States indications/contraindications				
3.	Prepares/checks equipment				
4.	Explains procedure to patient/family				
5.	Inspects the nostril for significant amount of mucus and/or blood				
6.	Chooses appropriate medication				
7.	Withdraws medication				
8.	Places the administration end of IN device in the nostril (If repeating dose, if possible, use opposite nostril)				
	8a. Verbalizes no more than 1mL of solution should be administered in each nostril				
9.	Reassess/Document:				
Notes:					

Joint Immobilization

INDICATIONS

Signs of possible dislocation or fracture of a joint including pain, deformity, crepitus, or swelling to a joint

CONTRAINDICATIONS (Relative)

• No contraindications

CONSIDERATIONS

Cut and expose affected extremity
Prepare equipment for joint immobilization

Joint Immobilization

Exami Exami	Fail 🗌			
Equip	ment:			
•	BSI equipment	 Padding 		
•	Splint, roller bandage, and/or tape			
Assess	sment/Treatment indicators:			
	<u>Indications</u>	<u>Contraindica</u>	ations	
•	Signs of possible dislocation or fracture of joint	 No contraindication 	ons	
	deformity, crepitus, or swelling of joint.			
Proce			Yes	No
1.	Scene safety awareness/PPE usage			
2.	Directs application of manual stabilization of injury			
3.	Assesses distal motor, sensory, or circulatory functions in compares with uninjured extremity	n the injured extremity,		
	The examiner advises "Motor, sensory and circulator	ry functions are present and	normal."	
4.	Selects the proper splinting material			
5.	Immobilizes the site of injury			
6.	Immobilizes the bone above the injury site			
7.	Immobilizes the bone below the injury site			
8.	Secures the entire injured extremity is secured			
9.	Reassesses distal motor, sensory and circulatory function	ns in the injured extremity		
10.	Reassess/Document:			
	The examiner advises "Motor, sensory and circulato	ry functions are present and	normal.	
Notes	:			

King Airway Device (Perilaryngeal)

INDICATIONS

Use of King Airway may be performed on those patients who meet **ALL** of the following:

Unresponsive and apneic (less than 6 breaths per minute) No gag reflex Appropriately sized airway

			C	Connector	Recommended
	Height	Weight	Size	Color	Air Volume
•	35-45" or	12-15kg:	Size 2	GREEN	23-35mL
•	41-51" or	25-35kg:	Size 2.5	ORANGE	30-40 mL
•	48-60" or	4-5 feet:	Size 3	YELLOW	60 mL
•	60-72" or	5-6 feet:	Size 4	RED	80 mL
•	≥ 72" or ≥	e6 feet:	Size 5	PURPLE	90 mL

CONTRAINDICATIONS

- Conscious patients with an intact gag reflex
- Known ingestion of caustic substances
- Suspected foreign body airway obstruction (FBAO)
- Facial and/or esophageal trauma
- Patients with known esophageal disease (cancer, varices, surgery, etc.)

CONSIDERATIONS

No considerations

King Airway Device (Perilaryngeal)

Examin Examin		Date:s Pass/Counsel	Fail 🗌	
Equipn	nent:			
	Appropriately sized King LTS-D Syringe	BVMWater based lubricant		
Assessi	ment/Treatment indicators:			
who mo	Indications King Airway may be performed on those patients eeting ALL of the following: nresponsive and apneic (less than 6 breaths per ninute) o gag reflex ppropriately sized airway	 Contraindica Conscious patients with reflex Known ingestion of ca Suspected foreign bookstruction (FBAO) Facial and/or esophage Patients with known disease (cancer, varione) 	ith an inta austic sub dy airway geal traur esophage	stances na al
Proced	ure:	disease (carreer) varie	Yes	No No
1.	Scene safety awareness/PPE usage			
2.	States indications/contraindications			
3.	Prepares/checks equipment			
4.	Explains procedure			
5.	Chooses the appropriately sized King Airway based on I	patient height		
6.	Tests cuff inflation system by injecting the maximum reinto the cuffs (Prior to insertion, disconnect valve actuator from inflathe air from both cuffs)			
7.	Applies water-based lubricant to the beveled distal tip tube taking care to avoid introduction of lubricant in or openings			
8.	Pre-oxygenates patient with 100% oxygen through BVN	И		
9.	Positions patient in the "sniffing position", if no cervica	l spine injury suspected		
10.	Holds the KING LTS-D at the connector with dominant hand, hold mouth open and apply chin lift)	hand (with non-dominate		
11.	With the KING LTS-D rotated laterally 45-90%, introduce advance behind base of tongue	es tip into mouth and		
12.	Rotates the tube back to the midline as the tip reaches pharynx	the posterior wall of the		
13.	Advances KING LTS-D until base of connector is aligned exerting excessive force	with teeth or gums without		

Holding the KLT 900 cuff pressure gauge in non-dominant hand, inflates cuffs of the KING LTS-D to the minimum volume necessary to seal the airway at the peak ventilator pressure		
Attaches the breathing circuit to the 15 mm connector of the KING LTS-D		
While gently bagging the patient to assess ventilation, simultaneously withdraws the airway until ventilation is easy and free flowing		
Reference marks are provided at the proximal end of the KING LTS-D which when aligned with the upper teeth given an indication of the depth of insertion		
Confirms proper position by auscultation, chest movement and/or verification of CO ₂ by capnography		
Adjusts cuff inflation to seal volume		
Secures KING LTS-D to patient		
Reassess/Document: Patient Airway insertion Depth of insertion Confirmation of proper insertion (auscultation, chest movement, ETCO ₂) Patient response/tolerance to intervention		
	the KING LTS-D to the minimum volume necessary to seal the airway at the peak ventilator pressure Attaches the breathing circuit to the 15 mm connector of the KING LTS-D While gently bagging the patient to assess ventilation, simultaneously withdraws the airway until ventilation is easy and free flowing Reference marks are provided at the proximal end of the KING LTS-D which when aligned with the upper teeth given an indication of the depth of insertion Confirms proper position by auscultation, chest movement and/or verification of CO ₂ by capnography Adjusts cuff inflation to seal volume Secures KING LTS-D to patient Reassess/Document: Patient Airway insertion Depth of insertion Confirmation of proper insertion (auscultation, chest movement, ETCO ₂) Patient response/tolerance to intervention	the KING LTS-D to the minimum volume necessary to seal the airway at the peak ventilator pressure Attaches the breathing circuit to the 15 mm connector of the KING LTS-D While gently bagging the patient to assess ventilation, simultaneously withdraws the airway until ventilation is easy and free flowing Reference marks are provided at the proximal end of the KING LTS-D which when aligned with the upper teeth given an indication of the depth of insertion Confirms proper position by auscultation, chest movement and/or verification of CO ₂ by capnography Adjusts cuff inflation to seal volume Secures KING LTS-D to patient Reassess/Document: Patient Airway insertion Confirmation of proper insertion (auscultation, chest movement, ETCO ₂) Patient response/tolerance to intervention

Neonate Resuscitation Post Delivery

INDICATIONS

Cardiac/Respiratory Arrest post delivery

CONTRAINDICATIONS

• Known still birth

CONSIDERATIONS:

Two patients
Have second EMS personnel support mother emotionally
Continued medical support for mother

Neonate Resuscitation Post Delivery

Exami Exami	nee: ner:	Date Pass	e: Pass/Counsel	Fail	
Equip	ment:				
•	BSI Equipment / PPE	• (Oxygen		
•	Obstetric Kit	• (OPA		
•	Infant BVM				
Assess	sment/Treatment indicators:				
	<u>Indications</u>		Contrain	<u>dications</u>	
•	Cardiac / Respiratory arrest post-delivery to neon	ate	Known still birth		
Proce	dure:		·	Yes	No
1	After birth assess new born: good tone, breathing	or crying			
1.	Check heart rate >60 if <60 continue to #3				
	If infant is breathing appropriate rate or crying: W			_	_
2.	temperature, position airway, clear secretions if n	needed, dry	. Then give to mother		
	for continued care.				
	If not breathing or agonal respirations				
	Airway: Open airway, suction if needed, position				
_	Breathing: Provide oxygen in high concentration,	nonrebreat	her or assist		
3.	ventilations as indicated (e.g., BVM)	_			
	Circulation: Assess perfusion, perform chest compressions as indicated (i.e. HR				
	<60/min with poor perfusion). All rates and procedures shall adhere to AHA				
	guidelines.				
4.	Emotional support to mother and family.				
5.	Continue to reassess and transport; keep infant w	arm.			
Notes:					

OB/Emergency Childbirth

INDICATIONS

Patient with complaint of severe abdominal pain and signs of imminent birth

CONTRAINDICATIONS (Relative)

Consider rapid transport if the following is found:

- Mother has uncontrolled hemorrhage with no imminent signs of delivery
- Limb or cord presentation is visualized at the vaginal opening

CONSIDERATIONS:

Assess the patient by asking the following questions:

- a) Have you had prenatal care?
- b) Have you had any past pregnancies?
- c) How many live deliveries have you had in the past?
- d) What is your expected due date?
- e) Do you have the urge to bare down?
- f) Have you had excessive fluid; BOW broken or plug passed?
- g) What have been the length and frequency of contractions?
- h) Are there any expected complications?

Consider preparing for in place delivery if the following is found:

Mother has the urge to push
Mother states water has broken
Bulging or crowning of the perineum is noted
Contractions are less than three minutes apart lasting 30 seconds or longer

Place the patient in a supine or semi-Fowler's position

Instruct the patient to focus on breathing and notify you when contractions start and stop

OB/Emergency Childbirth Skills Test

Examin	ee:	Date:		
Examin	er:	Pass Pass/Counsel	Fail	
Equipm	nent:			
•	BSI equipment			
	Obstetric kit			
Assessi	ment/Treatment indicators:			
	<u>Indications</u>	Contraindica		
	gns of imminent delivery	Limb presentation at va	•	ning
	istory of pregnancy with urge to push or bear own	Respiratory or cardiac f	allure	
Proced	-		Yes	No
1.	Scene safety awareness/PPE usage			
2.	States indications/contraindications			
3.	Asks patient appropriate assessment questions			
4.	Explains and reassures the need to check for crown	ning or abnormal bleeding		
5.	Observes for presentation of prolapsed cord or abr	normal presentation		
6.	Opens OB kit, cleans and drapes the area, being sur	re to keep a sterile zone		
7.	Appropriately dons sterile gloves			
8.	Explains procedure to patient before placing one had applying gentle pressure to prevent explosive birth	·		
9.	Uses second hand to apply gentle pressure to the pthe opening	perineum to prevent tearing of		
10.	Observes for nuchal cord			
	The examiner advises "The cord is wra	apped around the baby's neck."		
11.	Loosens and slips cord over baby's head			
12.	Suctions mouth, then nose (once head is delivered)			
13.	Applies gentle upward and downward pressure to shoulders	head to help release the upper		
14.	Once delivery is complete, holds baby securely			
15.	Notes the time of birth and initial A-P-G-A-R			
	The examiner advises "The baby is out,	has a pulse, but is not breathing."	,	
16.	Provides tactile stimulation while drying the baby a	and rubbing the feet		
The examiner notifies "The baby is now crying."				

17.	Wraps the baby in a blanket, places hat on baby's head for warmth	
18.	Verifies cord is no longer pulsating, clamps cord approximately 6 and 8 inches away from baby, verbalizing the cutting of the cord	
19.	Gives baby to mother/encourages bonding and warmth	
20.	Massages fundus, states why this is necessary	
21.	Mother delivers placenta; places placenta in biohazard safe bag	
22.	Places sanitary pad; have mom lower and close legs and assume position of comfort	
23.	Addresses the need to observe and treat possible bleeding control of mother	
24.	Reassess/Document: Patient Newborn, document A-P-G-A-R at 1 and 5 minutes	

Apgar Scoring System

I	ndicator			2 Points
A	Activity (muscle tone)	Absent	Flexed arms and legs	Active
P	Pulse	Absent	Below 100 bpm	Over 100 bpm
G	Grimace (reflex irritability)	Floppy	Minimal response to stimulation	Prompt response to stimulation
A	Appearance (skin color)	Blue; pale	Pink body, Blue extremities	Pink
R	Respiration	Absent	Slow and irregular	Vigorous cry

** Assess Apgar at 1 and 5 minutes on all newborns

https://www.abclawcenters.com/practice-areas/diagnostic-tests/apgar-score-for-assessment-of-the-newborn/score-for-assessment-of-the-newb

Oxygen Administration

INDICATIONS

Patient complains of shortness of breath and/or chest pain

Signs and symptoms of chronic pulmonary disease, shortness of breath, coughing, wheezing, desaturation, pursed lip breathing, anxiety, accessory muscle use, cyanosis, decreased breath sounds, or ALOC

CONTRAINDICATIONS

• No contraindications, be cautious of potential for hyper-oxygenation

CONSIDERATIONS

Oxygen needs of the patient Verbalizes oxygen parameters set forth by ICEMA:

- o Hypoxia: Titrate 0₂ at lower rate to maintain SP0₂ at 94%
 - Verbalizes understanding: No 0₂ for SPO₂ >95%
- o COPD: Titrate 0₂ at lower rate to maintain SPO₂ at 90%
 - Verbalizes understanding: No O₂ for SPO₂ >91%

Oxygen Administration Skills Test

Exam	inee: Date:		
Exam	iner: Pass Pass/Counsel	Fa	il 🗌
Equip	ment:		
•	PPE • Oxygen tank		
•	Nasal cannula, simple mask or Non- Oxygen regulator		
	rebreather mask • Monitor with SpO2 of	apabilities	
Asses	sment/Treatment indicators: Indications Contrai	indications	
• P:		raindications	_
	gns and symptoms of chronic pulmonary disease, shortness	amarca cro	.5
	f breath, coughing, wheezing, desaturation, pursed lip		
	reathing, anxiety, accessory muscle use, cyanosis, decreased		
	reath sounds, or ALOC	W	
	Scene safety awareness/PPE usage	Yes	No
1.		Ш	
2.	States indications/contraindications		
3.	Prepares/checks equipment		
	Checks the "five patient rights, plus one"		
	Right patient		
	Right medication D-Dose/Drug		
4.	 Right dose I- Integrity of packaging Right route C-Clarity of solution 		
	Right time E-Expiration Date		
	Allergies		
5.	Explains procedure		
6.	Gathers appropriate equipment (i.e. oxygen tank, nasal cannula, simple mask, non-rebreather mask)		
7.	Cracks valve on the oxygen tank		
8.	Assembles the regulator to the oxygen tank		
9.	Opens the oxygen tank valve		
10.	Checks the oxygen tank pressure		
11.	Checks for leaks		
12.	Attaches (nasal cannula, simple or non-rebreather mask) to correct port of regulator		
	Adjusts regulator to ensure oxygen flow rate appropriately per delivery device		
13.	 Nasal cannula – 1 to 6 LPM 		
	 Simple mask – 8 to 12 LPM 		

	 Non-rebreather mask – 6 to 15 LPM 	
14.	Attaches adjunct to patients face and adjusts to patient comfort	
15.	Reassess/Document:	
Note	Patient tolerance/response to intervention	

Patient Assessment/Management-MEDICAL

INDICATIONS

Patient with a medical complain

CONTRAINDICATIONS (Relative)

• No contraindications

CONSIDERATIONS

Considers stabilization of the spine as needed

Patient Assessment/Management-MEDICAL

Examin	nee: Date:		
Examin	ner: Pass Pass/Couns	el Fail [
Equipm			
	BSI Equipment		
Assessi	ment/Treatment indicators:		
	<u>Indications</u> <u>Contr</u>	aindications	
•	Patient with a medical complaint • No contrain	ndications	
Proced	lure:	Yes	No
	SCENE SIZE-UP		T
1.	Scene safety awareness/PPE usage		
2.	Determines the scene/situation is safe		
3.	Determines the nature of illness		
4.	Determines the number of patients		
5.	Requests additional EMS assistance if necessary		
6.	Considers stabilization of the spine		
	PRIMARY SURVEY/RESUSCITATION		
7.	Verbalizes general impression of the patient		
8.	Determines responsiveness/level of consciousness (AVPU)		
9.	Determines chief complaint/apparent life-threats		
	Assesses airway and breathing		
10.	Assures adequate ventilation		
	Initiates appropriate oxygen therapy Assesses circulation		
	Assesses for and controls major bleeding		
11.	Checks pulse		
	 Assesses skin (color, temperature or condition) 		
12.	Identifies patient priority and makes treatment/transport decision		
	HISTORY TAKING		
	Obtains history of the present illness		
	Onset		
	 Provocation 		
	Quality		
13.	Radiation		
	Severity		
	Time		
	 Clarifying questions of associated signs and symptoms related to O-P-Q-R-S-T 		

14.	Obtains or attempts to obtain past medical history	
SECON	DARY ASSESSMENT	
15.	Assesses affected body part/system Cardiovascular Neurological Integumentary Reproductive Pulmonary Musculoskeletal GI/GU Psychological/Social	
VITAL	SIGNS	
16.	Obtains or delegates the blood pressure, pulse, respiratory rate, quality and effort	
17.	States field impression of patient	
18.	Interventions (verbalizes proper interventions/treatment)	
REASSE	ESSMENT	
19.	Reassess/Document:	
20.	Provides accurate verbal report to arriving EMS unit	
Notes:		

Patient Assessment/Management-TRAUMA

INDICATIONS

Patient with blunt or penetrating trauma

CONTRAINDICATIONS (Relative)

• No contraindications

CONSIDERATIONS

Considers stabilization of the spine

Patient Assessment/Management-TRAUMA Skills Test

Fyam	ninee: Date:		
	niner: Pass		- 7
		ı alı _	
	oment:		
	BSI Equipment		
Asses	ssment/Treatment indicators:		
	<u>Indications</u> <u>Contraind</u>	_	
•	Patient with possible or confirmed blunt or • No contraindic	ations	
Droce	penetrating trauma edure:	Yes	No
	IE SIZE-UP	163	140
	Scene safety awareness/PPE usage		
1.	, , , , , , , , , , , , , , , , , , , ,		
2.	Determines the scene/situation is safe		
3.	Determines the mechanism of injury		
4.	Determines the number of patients		
5.	Requests additional EMS assistance if necessary		
6.	Considers axial spinal stabilization, delegates as needed		
PRIM	IARY SURVEY/RESUSCITATION		
7.	Verbalizes general impression of the patient		
8.	Determines responsiveness/level of consciousness		
9.	Determines chief complaint/apparent life-threats		
	Airway		
10.	Opens and assesses		
	Inserts adjunct as indicated		
	Assesses breathing Assesses breathing		
11.	Assures adequate ventilation		
	Initiates appropriate oxygen therapy		
	Manages any injury which may compromise breathing/ventilation		
	Circulation		
	Checks pulse		
12.	Assesses skin (color, temperature or condition)		
	 Assesses for and controls major bleeding if present Initiates shock management 	_	_
	Initiates shock management (positions patient properly, conserves body heat)		

13.	Calculates GCS	
14.	Identifies patient priority and makes treatment/transport decision (based upon calculated GCS)	
HISTO	ORY TAKING	
15.	Attempts to obtain SAMPLE history	
SECO	NDARY ASSESSMENT	
16.	 Head Inspects and palpates scalp and ears, mastoid areas Assesses eyes, pupils Inspects mouth, nose and facial area 	
17.	Neck Checks position of trachea Checks jugular veins Palpates cervical spine	
18.	ChestInspects and palpates chestAuscultates lung sounds	
19.	Abdomen/pelvis	
20.	Lower extremities Inspects, palpates and assesses distal motor, sensory and circulatory functions	
21.	 Upper extremities Inspects, palpates and assesses distal motor, sensory and circulatory functions 	
22.	Posterior thorax, lumbar and buttocks Inspects and palpates posterior thorax Inspects and palpates lumbar and buttocks areas	
VITA	L SIGNS	
23.	Obtains baseline vital signs (must include BP, P and R) • Includes temperature if patient is a potential TXA recipient	
24.	Manages secondary injuries and wounds appropriately	
25.	Verbalizes how and when to reassess the patient	
REAS	SESSMENT	
26.	Reassess/Document:	
Note	·	

Pulse Oximetry

INDICATIONS

Chief complaint of respiratory, cardiovascular and neurological complications

Abnormal vital signs

Trauma patients

Any patient that would benefit from monitoring

CONTRAINDICATIONS

• No contraindications

CONSIDERATIONS

Remove nail polish if necessary; alcohol prep may be used for this

Pulse Oximetry

Examir	nee: Date:		
Examir	ner: Pass	Fail 🗌	
Equipn			
	PPE • Monitor with SpO ₂ or	apabilities	
•	Pulse oximetry sensor		
Assess	ment/Treatment indicators:		
		<u>ntraindicati</u>	<u>ons</u>
	1 1 1/	۱o 	
	•	ontraindica	tions
	normal vital signs		
	uma patients		
Proced	y patient, medic feels would benefit from monitoring	Yes	No
Proced	Scene safety awareness/PPE usage	165	INO
1.	Seeme safety awareness/11 E asage		
2.	States indications/contraindications		
3.	Prepares/checks equipment		
4.	Explains procedure		
5.	Gathers appropriate equipment (monitor, pulse oximetry sensor)		
6.	Removes nail polish as needed		
7.	Applies adhesive sensor or clip sensor to finger		
8.	Utilizes monitor to provide pulse oximetry reading (normal = 94% - 98%)		
9.	Reassess/Document: Patient Lung sounds Placement verification SpO2 and CO ₂ monitoring Patient response/tolerance to intervention		
Notes:		,	

Subcutaneous Medication Administration

INDICATIONS

• Desired route for administration of medication

CONTRAINDICATIONS (Relative)

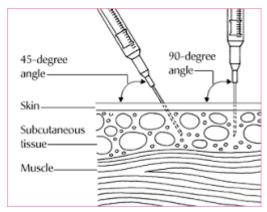
If any of the following are noted at the site select a different site:

- Evisceration
- Masses
- Tenderness
- Bruising
- Infection
- Abrasions
- Swelling

Subcutaneous Medication Administration

Exami	nee:	D	ate:		
Exami	ner: F	Pass 🗌	Pass/Counsel	Fail	
Equip					
•	BSI equipment Syringe Alcohol Prep	•	Safety Needles (25g 1 Bandage	./2 -7/8 ind	ch)
Assess	sment/Treatment indicators:				
•	Indications Desired route for administration of medication	1	 Contraindications (r Evisceration Masses Tenderness Bruising Infection Abrasions Swelling 	elative to	<u>site)</u>
Proced				Yes	No
1.	Scene safety awareness/PPE usage				
2.	States indications/contraindication				
3.	Prepares and checks equipment				
4.	Explains procedure to patient/family				
5.	Chooses and inspects desired site for contraindicat Back of the upper arm (humeral region) Upper outer aspect of thigh	ions			
6.	Chooses appropriate medication				
7.	Withdraws medication				
8.	Positions patient and prepares site				
9.	Remove air from syringe (Push slightly on the plung to the level of the bevel of the needle)		- ,		
10.	Support the muscle to be injected (Without contant non-dominant hand)		·		
11.	Inserts needle into the site at 45° angle, stabilizes h no blood return (no blood return indicates proper p	-	-		
12.	Slowly injects medication to reduce pain and tissue	trauma			
13.	Withdraws needle and properly disposes needle an	nd syring	е		

	Ţ	
14.	Applies direct pressure, massages site and applies bandage as needed	
15.	Reassess/Document:	
Notes:		



http://www.ada-diabetes-management.com/administer-subcutaneous-injection/

Continuous Positive Airway Pressure Device (CPAP)

INDICATIONS

Awake, alert patient able to follow commands in severe respiratory distress as evidenced by:
Respiratory rate ≥ 24 breaths per minute and/or
SpO2 less than 90% and/or
Accessory muscle use

CONTRAINDICATIONS

- Apnea
- Unconscious
- Pediatric (appearing to be less than 15 years of age)
- Suspected pneumothorax
- Vomiting
- Systolic blood pressure 90 mmHg or less (relative contraindication)

CONSIDERATIONS

No considerations

Continuous Positive Airway Pressure Device (CPAP)

Exam	inee:		Date: _			_
Exam	iner:	Pass		Pass/Counsel	Fail	
Equip	ment:					
•	CPAP mask	•	Oxygen	tank with spare	available	
•	CPAP circuit or device	•	Capnog	raphy monitoring	g device	
•	Cardiac monitor					
Asses	sment/Treatment indicators:					
Association	Indications		•	<u>Contraindication</u>	<u>ons</u>	
	e, alert patient able to follow commands in e respiratory distress as evidenced by:	•	Apnea			
sever	Respiratory rate ≥ 24 breaths per minute	•	Uncons			
	and/or	•	old)	ic (appearing youn	iger than 1:	o years
•	SpO2 less than 90% and/or	•	-	ted pneumothora	ax	
•	Accessory muscle use	•	Vomitir	•		
	,	•		: blood pressure 9	90 mmHg	or less
			=	e contraindicatio	_	
Proce	dure:				Yes	No
1.	Scene safety awareness/PPE usage					
2.	States indications/contraindications					
	Prepares/checks equipment					
	Checks the "five patient rights, plus one"					
	Right padient Right padienting Right padienting	/D				
3.	Right medicationRight doseI- Integ	rity of pa	ckaging			
5.		y of solut				
		ation Dat				
	 Allergies 					
4.	Explains procedure					
5.	Provides supplemental oxygen as clinically indica	ted				
6.	Positions patient sitting upright					
	Assembles CPAP mask, circuit and device					
7.	·					
8.	Applies mask and begins CPAP at 0-2cm H ₂ O (or leaderice); instruct patient to inhale through nose a			•		
9.	Slowly titrates in 3cm increments up to maximum patients tolerance while instructing patient to co			_		
٥.	pressure		and in its of	bambe moreusing		
10.	Attaches ET CO ₂ monitoring device					

11.	Verbalizes understanding of CPAP being continued until patient is placed on CPAP device at the receiving hospital Emergency Department (ED)	
12.	Reassess/Document: • Patient work of breathing, level of anxiety, and level of comfort • CPAP level /reading • O ₂ saturation, vital signs, lung sounds • Capnography monitoring • Patient tolerance/response to intervention	
Notes	::	

End Tidal Capnography Monitoring Device

INDICATIONS

** MANDATORY: to rule out esophageal intubation and confirm and monitor endotracheal tube position in all intubated patients.

To identify endotracheal tube dislodgement
To assist in monitoring ventilation and perfusion in all ill or injured patients
To monitor quality of chest compressions
To confirm ROSC
To monitor status of asthmatic, CHF, COPD, PE patient

CONTAINDICATIONS

No considerations

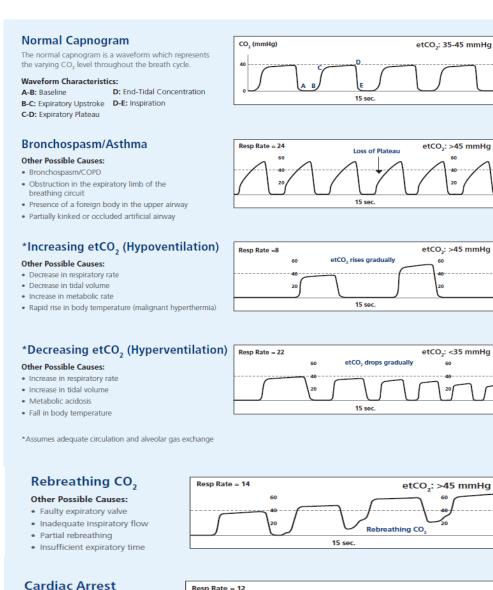
CONSIDERATIONS

In cases of suspected head trauma (signs of herniation), maintain ET CO2 between 30-35mmHg (figure 1).

Aggressive hyperventilation should be avoided in all patients

End Tidal Capnography Monitoring DeviceSkills Test

	Siano rese					
Exami	Examinee: Date:					
Exami	ner: Pass 🗍	Pass/0	Counsel	Fa	il 🔲	
Equip	ment:				_	
•	PPE • Oxy	gen de	vice			
•	•	_	le with s	sensor		
Assess	sment/Treatment indicators:					
	Indications		Co	ntraindica	itions	
• M	ANDATORY: to rule out esophageal intubation or confirm and			No		
	onitor endotracheal tube position in all intubated patients.			contraind	ications	
 To 	monitor quality of chest compressions					
 To 	confirm ROSC					
 To 	identify endotracheal tube dislodgement.					
 To 	assist in monitoring respiration, metabolism and perfusion in	ill or				
inj	jured patients					
• To	monitor the status of an asthmatic, CHF, COPD, PE patient					
Proce				Yes	No	
1.	Scene safety awareness/PPE usage					
2.	States indications/contraindications					
3.	Prepares/checks equipment					
4.	Explains procedure					
5.	Attaches the capnography sensor to the endotracheal tube or oxyg device without increasing dead space	gen deliv	ery			
6.	If not previously attached, attaches the ET CO2 connector to the ca	ardiac m	onitor			
7.	Ideally, maintains ET CO2 output between 35-45 mmHg					
8.	If suctioning is required, takes caution to not dislodge "T" sensor					
9.	Reassess/Document: Patient Respiratory status Intubation or oxygen delivery ET CO ₂ reading, waveform and respiratory rate Patient response/toleration to intervention					
Notes						



5mL is the maximum airflow to be used with the capnography cannula or the sampling will be diluted and incorrect (wash out)

NORMAL RANGES:

CAPNOG: 35-45mmHg

•CO₂ is an ACID

Bicarb regulates pH

pH: 7.35 - 7.45

PCO₂: 35-45mmHg

HCO₃: 22-28mmol/L

Capnography cannulas CAN
BE USED with CPAP masks.
The masks are designed to

properly seal with a nasal capnography adjunct in place

An elevated RR may be due to the buildup of CO₂; the body compensates by blowing off this acid

Cardiac Arrest

Other Possible Causes:

- Decreased or absent cardiac output
- Decreased or absent pulmonary blood flow
- Sudden decrease in CO₂ values



Return of Spontaneous Circulation

Other Possible Causes:

- Increase in cardiac output
- Increase in pulmonary blood flow
- Gradual increase in CO₂ production



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Figure 1

With capnography, one can monitor Respiration, Metabolism and Perfusion

It is imperative to have capnography in place to measure the FIRST (assisted or unassisted) breath to establish a baseline for each patient.

External Jugular Vein Access

INDICATIONS

Patient condition requires IV access and other peripheral IV access attempts are unsuccessful.

CONTRAINDICATIONS

• Patient eight (8) years of age or younger

CONSIDERATIONS

No considerations

External Jugular Vein Access Skills Test

Exam	ninee: [Date:			_
Exam	niner: Pass [Pass/Counsel	Fail 🗌	
	pment:				
•		Occ	clusive dressing		
•	Alcohol swabs	IV t	ubing/fluids (if inc	dicated)	
Asses	ssment/Treatment indicators:				
	<u>Indications</u>		Contraindi	<u>cations</u>	
• Pa	atient condition required IV access and other	•	Patient eight (8)	years of ag	ge or less
р	eripheral IV access attempts are unsuccessful				-
Proce	edure:			Yes	No
1.	Scene safety awareness/PPE usage				
2.	States indications/contraindications				
3.	Prepares/checks equipment				
	Checks the "five patient rights, plus one"				
	Right patient				İ
	• Right medication D -Dose/Drug				İ
4.	Right dose I- Integrity of pack				
	Right route C-Clarity of solution	n			ı
	Right time				İ
	Allergies				
5.	Explains procedure				
	Utilizes axial spinal stabilization in trauma patients. (f not in		•		
6.	stabilization, extend and stabilize patient's neck); maintain	manu	al axial spinal		
	stabilization if the need to remove c-collar arises				
7.	Places patient in Trendelenburg position or apply slight prestourniquet effect	ssure	at base of vein for		
	Obtains external jugular vein access with appropriately size	d IV ca	atheter		
8.	, , , , , , , , , , , , , , , , , , , ,				
9.	Securely tapes catheter with occlusive dressing in place and	l conti	nue to monitor		
	for patency				
10.	Rechecks site frequently for signs of infiltration				
	Reassess/Document:				İ
11.	Patient				
	EJ IV placement and s/s of infiltration				
N 1 - 1 -	Patient tolerance/response to intervention				
Note	S:				

Intraosseous Insertion/Infusion (IO)

INDICATIONS

Primary vascular access in cardiac patients eight (8) years of age and younger Any patient where venous access is unavailable by any other mean

CONTRAINDICATIONS

- Fracture of target bone
- Previous IO attempt and marrow entry at target site
- Infection at target site
- Severe burn to the extremity
- Crush injuries
- Known bone disease

CONSIDERATIONS

Anterior distal femur, 2cm above the patella; base station order (Figure 1) Lidocaine for pain control Pressure infusion device

Intraosseous Infusion

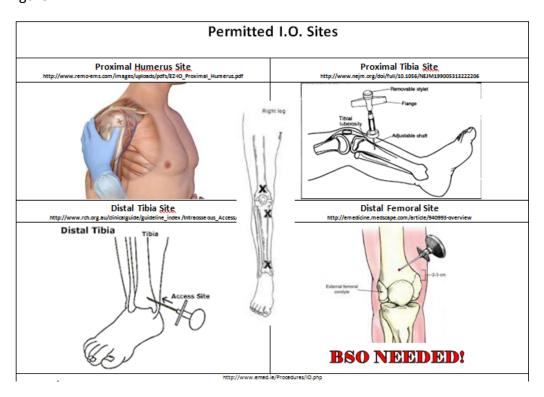
Exami	nee:	Date:		
Exami	ner:	Pass Pass/Counsel	Fail 🗌	
Equip	ment:			
Pri (8)An	IV Solution IV administration set 3-way stopcock IO needle/driver (25mm, 45mm) Povidone – iodine OR Chlorhexidine skin cleaner sment/Treatment indicators: Indications mary vascular access in cardiac patients eight years of age and younger y patient where venous access Is unavailable any other means	 Extension tubing Sharps container Tape Splint Pressure infuser or BP cu Syringe Sterile gauze pads Contraindica Fracture to the targe Previous IO attempt at target site Severe burn to the extension Crush injuries Known bone disease Infection at target site 	tions t bone and marrov ktremity	v entry
Proce	dure:	- intection at target sit	Yes	No
1.	Scene safety awareness/PPE usage			
2.	States indications/contraindications			
3.	Prepares/checks equipment			
4.	Checks the "five patient rights, plus one" Right patient Right medication Right dose Right route Right route Right time Allergies	of packaging solution		
5.	 Selects appropriate solution/administration set Prepares IO and attaches 3-way stopcock and syringe 	(as needed), extension tubing,		
6.	Selects the appropriate sized needle for insertion • Attaches needle to driver	n		
7.	Select the appropriate site of insertion and clear a) Anterior medial aspect of the proximal below the tibial tuberosity (preferred sit age and younger) b) Anterior medial malleolus (distal tibia)	tibia – approximately 1-3cm se for pediatrics eight (8) years of		

	the medial malleolus (one of the preferred site for adults nine (9) years of age and older)		
	c) Proximal humeral head – approximately 1-3cm from the humeral		
	tuberosity when the hand is rotated inward toward the body (adults nine		
	(9) years of age and older only)		
	d) Distal Femur – approximately 1-3cm above the distal head		
	** Base Station Order (BSO) only		
0	Explains procedure		
8.			
	Insertion (EZ-IO):		
	a. Anterior Tibia (example)		
	 Swabs dominant hand with Povidone-iodine and relocate the 		
	landmark, with other hand stabilizing the leg		
	 Positions the IO needle and driver perpendicular to the patient's leg 		
	(90-degree angle)		
9a.	 Inserts the needle through the skin to the bone until the needle rests 		
	against the bone		
	Visualizes the 5mm mark above the skin		
	Depresses the trigger on driver to insert IO needle until there is a		
	sudden decrease of resistance (or "pop")		
	Removes the driver and the stylet; ensures proper disposal		
	Attaches primed IV extension tubing to hub of needle		
	Insertion (manual):		
	a. Anterior Tibia (example)		
	Swabs dominant hand with Povidone-iodine and relocate the		
	landmark while stabilizing the leg		
9b.	Positions the IO needle perpendicular to the patient's leg (90-degree		
	angle)		
	Applies downward pressure in a twisting motion perpendicular to the		
	surface of the target site		
	Upon entrance into medullary cavity, slightly advances needle 1-2cm		
	Confirms IO placement		
	Loss of resistance on insertion		
10.	Needle free standing		
	IO flushes freely		
	Aspiration of blood/marrow		
	No extravasation		
11.	Secures IO		
	Leaves site uncovered, hinges tubing to extremity with tape Delign partial for a gradient and the state Partial for a gradient and the state		
	Pain control for conscious patients		
12.	Utilize 2% Lidocaine Drives systemics tubing with 0.5 mg/kg of 2% Lidocains and		
	Primes extension tubing with 0.5 mg/kg of 2% Lidocaine and		
	infuse slowly (over 2 minutes), not to exceed 40mg		
13.	Determines how IV fluid/medication may be administered:		
1.4	 Using a syringe, pressure device or B/P cuff Reassess/Document: 		
14.	Patient		
	Placement/size/site for signs of extravasation		
l	- i lacement, size, site for signs of extravasation	1	

- Medication: dose, time, route/location,
- Patient response/tolerance to intervention

Notes:

Figure 1



Nasogastric/Orogastric Tube Insertion

INDICATIONS

Any intubated patient where gastric distention may impede ABC's ALL intubated pediatric patients

Oral route for patients with mid-facial trauma and all patients less than six (6) months of age Conscious with continuous vomiting and inability to maintain airway

CONTRAINDICATIONS (Relative)

- History of esophageal strictures, varices and/or other esophageal disease
- Caustic ingestion
- Significant facial or head trauma
- History of bleeding disorders

CONSIDERATIONS

No considerations

Nasogastric/Orogastric Tube Insertion Skills Test

Exami	inee:	_ Date:		
Exami	iner:	Pass Pass/Counsel	Fail _	
	ment:			
•	PPE Naso/Orogastric tube (appropriately sized)	 Water soluble lubricant of Lidocaine gel 30-60 ml syringe Suction Setup Emesis Basin Tape 	or viscous	
• Ora	Indications The provided HTML representation of the provided HTML	and/or other esophageaCaustic ingestionSignificant facial or head	rictures, val disease	arices
Proced	·		Yes	No
1.	Scene safety awareness/PPE usage			
2.	States indications/contraindications			
3.	Prepares/checks equipment			
4.		y of packaging of solution		
5.	Selects appropriate size OG/NG tube			
6.	Explains procedure			
7.	Insertion			
7a.	Position patient in high Fowlers unless otherwi	se contraindicated or unconscious		
7b.	Measure and mark the gastric tube for proper is equipment and emesis basin readily available Nasogastric – combined distance between lobe to the xiphoid process Orogastric – combined distance between	reen the tip of the nose to the ear		

	,	 1
	ear lobe to the xiphoid process	
7c.	Examine both nares to determine nare with best airflow or examine oropharyngeal cavity for obstructions or secretions	
7d.	Lubricate distal third of the gastric tube with a water-soluble lubricant or viscous Lidocaine gel	
7e.	Gently pass the tube posteriorly along the floor of nasal or oral cavity	
7f.	Instruct patient to swallow (if conscious)	
7g.	If resistance is met while using nasal route, remove and attempt the other nostril	
7h.	Slowly rotate and advance tube during insertion until pre-designated mark is at tip of nose or corner of mouth	
8.	 Confirm proper tube placement Aspiration of stomach contents Injection of 30-60ml of air into tube and auscultate for the sound of air over the epigastric region 	
9.	Secure tube to bridge of nose or to side of mouth	
10.	Attach gastric tube to suction tubing and adjust to low suction or other type of approved suction device	
11.	Reassess/Document:	
Notes	:	

Needle Cricothyrotomy

INDICATIONS

Upper airway obstruction with severe respiratory distress
When unable to ventilate utilizing conventional airway maneuvers or devices

CONTRAINDICATIONS

Transection of distal trachea:

- **Symptoms:** respiratory distress, hoarseness, dysphonia (inability to produce voice sounds), cough, noisy breathing and stridor, dysphagia (inability to swallow)
- **Physical signs:** abnormal laryngeal contour, subcutaneous emphysema, cervical ecchymosis, hemoptysis (the coughing of blood from the respiratory tract below the level of the larynx)

Patient less than two (2) years of age

CONSIDERATIONS

Inline cervical stabilization as needed

Needle Cricothyrotomy

Exami	nee:	D	ate:		
Exami	ner: Pas	s [Pass/Counsel	Fail 🗌	
Equip	ment:				
•	PPE	•	Syringe		
•	NRB mask with 100% oxygen	•	BVM or Translaryngeal	Jet Ventilati	on (TLJV)
•	Adult 10-15gauge needle		device		
•	Pediatric 12-15gauge needle	•	Optional: 3-way stopco	ck or y-conr	ector
•	Cannula adaptor	•	End-tidal CO ₂ and Pulse	Oximetry	
Assess	sment/Treatment indicators:				
	<u>Indications</u>		<u>Contraind</u>	dications	
• Up	per airway obstruction with severe respiratory distress	•	Transection of distal to	rachea	
• Wh	nen unable to ventilate utilizing conventional airway	•	Patient less than two ((2) years of a	ge
ma	neuvers or devices				
Proced				Yes	No
1.	Scene safety awareness/PPE usage				
2.	States indications/contraindications				
3.	Prepares/checks equipment				
4.	Explains procedure				
5.	Supports ventilations, use inline cervical stabilization as	nee	eded		
6.	Pre-oxygenates and place patient in supine position pri procedure	or to	attempting		
7.	Locates the soft cricothyroid membrane between the the	nyro	id and cricoid cartilage		
8.	Holds the trachea in place and provide skin tension with finger of the non-dominant hand placed on either side				
9.	Uses the index finger to palpate the cricothyroid memb	rane	2		
10.	Places the needle in the midline of the neck at the infer cricothyroid membrane (to avoid the cricothyroid blood and laterally) • Directing it caudally (toward the feet) at an angent of the neck at the inference of the neck at the neck at the inference of the neck at the	d ves	ssels located superiorly		
11.	Punctures the skin and subcutaneous tissue. Advance to continuously applying negative pressure on the syringe confirming intratracheal placement				
12.	Advances the catheter forward off the needle until its h surface	ub r	rests at the skin		
13.	Removes the needle, attach a syringe and aspirate for a catheter remains in the trachea	ir to	confirm that the		

14.	Attaches cannula adaptor to BVM or use Translaryngeal Jet Ventilation (TLJV) device and ventilate with either BVM or TLJV One (1) second on and three (3) seconds off	
15.	Secures device	
16.	Reassess/Document: Patient Placement Lung sounds Chest expansion SpO2 and ET CO ₂ Patient response/tolerance (if conscious) to intervention	
Notes		

Needle Thoracostomy

INDICATIONS

Progressively worsening dyspnea/cyanosis
Decreased or diminished breath sounds on the affected side
Hypotension
Increased agitation
Distended neck veins
Tracheal deviations away from the affected side

CONTRAINDICATIONS

• No contraindications

CONSIDERATIONS

Determine position for conscious and unconscious patient
If conscious, place the patient in an upright position if able to tolerate
If patient is unconscious or in axial-spinal immobilization, leave supine
Determine best site:

- 2nd Intercostal space at the mid-clavicular line or the alternative site, at the 4th intercostal space, mid-axillary
- Caution should be exercised in the later stages of pregnancy; a higher (3rd) intercostal space should be used to avoid injury to the liver or spleen

Needle Thoracostomy

Exami	nee:	Date:			
Exami	ner:	Pass Pass/	Counsel 🗌	Fail 🗌	
Equip	ment:				
•	PPE Needle Thoracostomy Kit; or 14 or 16 gauge 3.25 inch needle (pts >50 kg); or 18-gauge needle 1.5-inch needle (pts <50 kg)	AntiseptionFlutter valueEnd tidalBVMTape	•	g device	
Assess	sment/Treatment indicators:				
DeHyIncDisTra	Indications ogressively worsening dyspnea/cyanosis creased or diminished breath sounds on the affecte potension creased agitation stended neck veins acheal deviations away from the affected side	ed side	\ <u>-</u>	indication ntraindicat	 '
Proced	dure:			Yes	No
1.	Scene safety awareness/PPE usage				
2.	States indications/contraindications				
3.	Prepares/checks equipment				
4.	Explains procedure				
5.	Preps chosen site with antiseptic wipes				
6.	Inserts needle perpendicular to the chest wall at t of the third rib until pleura is penetrated as indica following: • A rush of air • Ability to aspirate free air into the syringe	•			
7.	Removes the syringe and needle stylet and leave of	cannula in place			
8.	Adds flutter valve				
9.	Secures needle hub in place with tape or other de	vice			
10.	Reassess/Document:	CO₂ monitoring			

	•	Patient response/tolerance to intervention	
Notes	:		

Oral Endotracheal Intubation

INDICATIONS

Unresponsive and apneic patient

Agonal or failing respirations and/or no gag reflex present

Prolonged ventilation is required and adequate ventilation cannot otherwise be achieved

CONTRAINDICATIONS

• Suspected ALOC (initially)

CONSIDERATIONS

Utilize cervical stabilization as needed

Select appropriately sized endotracheal intubation tube

Consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury

Oral Endotracheal Intubation

Examiner:				
PPE	Examir	nee: Date:		-
PER	Examir	ner: Pass Pass/Counsel	Fail [
Endotracheal Intubation Tube (appropriately sized for age group) Stylet Laryngoscope Assessment/Treatment indicators: Indications Unresponsive and apneic patient Prolonger ventilation is required and adequate ventilation cannot otherwise be achieved Procedure: Scene safety awareness/PPE usage Checks the "five patient rights, plus one" Right patient Right patient Right froute Right froute Right froute Right froute Right froute Right froute Right froute Right medication Right patient Right patient Right patient Right medication Right patient Right patient Right proute Right for C-Clarity of solution Right patient Right patient Right medication D-Dose/Drug Right forus Right forus Right forus Right patient Right patient Right patient Right patient Right proute Right forus Right forus Right forus Right patient Rig				
Stylet Stylet Lidocaine IV (if indicated) Indications Unresponsive and apnete patient Prolonger ventilation is required and adequate ventilation cannot otherwise be achieved Procedure: Scene safety awareness/PPE usage States indications/Contraindications Right medication Right time Right time Right time Allergies Selects appropriate sized ET tube Explains procedure Susported ALOC (initially) Contraindications Suspected ALOC (initially) Yes No Contraindications Suspected ALOC (initially) Yes No Contraindications Suspected ALOC (initially) Preprocedure: Yes No Contraindications Suspected ALOC (initially) Fes No Contraindications Suspected ALOC (initially) Fes No Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Tes No Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Tes No Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Tes No Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Tes No Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Tes No Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Tes No Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Tes No Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Tes No No Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Contraindications Suspected ALOC (initially) Contraindications Contraindications Contraindications Contraindications Contraindications Contraindications Contraindications Contraindications Contraindications Contraindications Contraindications Contraindications Contraindic	•	PPE • End tidal CO ₂ monitoria	ng device	
Stylet Laryngoscope Assessment/Treatment indicators: Indications Unresponsive and apneic patient Patient with agonal or falling respirations, and/or no gag reflex Prolonger ventilation is required and adequate ventilation cannot otherwise be achieved Procedure: Scene safety awareness/PPE usage States indications/contraindications Prepares/checks equipment Checks the "five patient rights, plus one" Right patient Right medication Right dose Right route Right route C-Clarity of solution Right time Right foute Allergies Selects appropriate sized ET tube Insertion June of the word	•	Endotracheal Intubation Tube (appropriately BVM		
Assessment/Treatment indicators: Indications Contraindications		sized for age group) • Tape		
Indications	•	Stylet • Lidocaine IV (if indicate	ed)	
Indications	•			
Unresponsive and apneic patient Patient with agonal or failing respirations, and/or no gag reflex Prolonger ventilation is required and adequate ventilation cannot otherwise be achieved Procuetive: 1. Scene safety awareness/PPE usage 2. States indications/contraindications 3. Prepares/checks equipment 4. Right patient Right patient Right medication Pright patient Right froute Right froute Right froute Right me Right medication D-Dose/Drug Right route Right me Right note Right saleries Right saleries Right sose Right me Right note Right sole Right sole Right sole Right sole Right sole Right patient Right medication D-Dose/Drug Right note Right sole Right note Right sole	Assess			
Patient with agonal or failing respirations, and/or no gag reflex Prolonger ventilation is required and adequate ventilation cannot otherwise be achieved Procedure: 1. Scene safety awareness/PPE usage 2. States indications/contraindications 3. Prepares/checks equipment Checks the "five patient rights, plus one" ■ Right patient ■ Right dose ■ I- Integrity of packaging ■ Right time ■ Right time ■ Right time ■ Allergies Selects appropriate sized ET tube 5. Explains procedure 7. Insertion The supports ventilations with appropriate basic airway adjuncts The supports ventilations with appropriate basic airway adjuncts The supports ventilations with appropriate basic airway adjuncts To suspected head/brain injury Visualizes the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)				
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otherwise be achieved Procedure: Scene safety awareness/PPE usage Checks indications/contraindications Right patient Right patient Right dose Right time Allergies Selects appropriate sized ET tube Explains procedure Insertion Insertion Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury Visualizes the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Page and in injury Yes No Yes No No Yes No No No Sen safety awareness/PPE usage I				
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2. States indications/contraindications 3. Prepares/checks equipment Checks the "five patient rights, plus one" Right patient Right medication Right dose I- Integrity of packaging Right route Right rime Right rime Allergies Selects appropriate sized ET tube Linsertion Insertion Insertion Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury Visualizes the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)	Proce		Yes	No
3. Prepares/checks equipment	1.	-		
Checks the "five patient rights, plus one" Right patient Right medication Right dose Right route Right time Right time Right time Allergies Selects appropriate sized ET tube Insertion Insertion Ta. Supports ventilations with appropriate basic airway adjuncts Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)	2.	States indications/contraindications		
Right patient Right medication Right medication Right dose Right dose Right route Right route Right time Right time Right time Allergies Selects appropriate sized ET tube Insertion C. Clarity of solution E-Expiration Date Insertion C. Clarity of solution Right time Righ	3.	Prepares/checks equipment		
Right medication Right dose Right foute Right route Right time Right toute C-Clarity of solution Right time Right time Right modication		Checks the "five patient rights, plus one"		
4. • Right dose I- Integrity of packaging		Right patient		
Right route Right time Right time Allergies Selects appropriate sized ET tube Insertion Insertion Supports ventilations with appropriate basic airway adjuncts Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)		 Right medication D-Dose/Drug 		
Right time E-Expiration Date Allergies Selects appropriate sized ET tube Explains procedure Insertion Insertion Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)	4.	Right dose I- Integrity of packaging		
Allergies Selects appropriate sized ET tube Explains procedure Insertion June 1 Supports ventilations with appropriate basic airway adjuncts Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)		 Right route C-Clarity of solution 		
5. Selects appropriate sized ET tube 6. Explains procedure 7. Insertion 7a. Supports ventilations with appropriate basic airway adjuncts 7b. Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)		Right time E-Expiration Date		
5. Explains procedure		 Allergies 		
6. Explains procedure		Selects appropriate sized ET tube		
6. Insertion Ins	5.			
6. Insertion Ins		Explains procedure		
7a. Supports ventilations with appropriate basic airway adjuncts Ta. Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)	6.	ZAPIGITIS P. GOCGATIC		
7a. Supports ventilations with appropriate basic airway adjuncts Ta. Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP for suspected head/brain injury Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)		Insertion		
7a. Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP 7b. Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)	7.	insertion		
7a. Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP 7b. Immediately prior to intubation, consider prophylactic Lidocaine 1.5 mg/kg IVP Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)		Supports vantilations with appropriate basis airway adjuncts		
7b. for suspected head/brain injury Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)	7a.	Supports ventilations with appropriate basic all way adjuncts		
7b. for suspected head/brain injury Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)		Immediately prior to introduction, consider prophylastic Lidespine 1.5 mg/kg IVD		
Visualizes the vocal cords with the laryngoscope. Watch as the tube passes through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)	7b.			
through the vocal cords. Advance the tube until the vocal cord marker is situated beyond the vocal cords. Placement efforts must stop after twenty (20)			_	
7c. situated beyond the vocal cords. Placement efforts must stop after twenty (20)				
situated beyond the vocal cords. Placement enorts must stop after twenty (20)	7c.			
				_

7d.	After three (3) attempts, consider alternative airway access	
7e.	Inflates the balloon to the point where no air leak can be heard	
7f.	Listens for bilateral breath sounds, resume ventilation with 100% oxygen and secure airway	
8.	Reassess/Document: Patient Lung sounds Placement verification SpO2 and CO ₂ monitoring Patient response to intervention	
Notes	:	

Synchronized Cardioversion

INDICATIONS

Unstable ventricular tachycardia or wide complex tachycardias (sustained) Unstable narrow complex tachycardias

CONTRAINDICATIONS

• Patient eight (8) years of age and younger

CONSIDERATIONS

In typical pad placement, assess for:

- Transdermal medication patches (remove if found, wipe area clean)
- Implanted medical devices (avoid placing pads over devices or jewelry)

If patient's condition permits administer sedative medication for conscious patients with signs of adequate tissue perfusion:

- MIDAZOLAM 2 mg slow IV/IO push or via intranasal route
- **FENTANYL** 50 mcg slow IV/IO over one (1) minute (initial dose)
 In five (5) minutes subsequent doses may be repeated titrating to pain; not to exceed 200mcg total via IV/IO routes

<u>OR</u>

• **FENTANYL** 100 mcg total, via intranasal (IN) or intramuscular (IM) route. If patient is medicated intranasally, 50 mcg may be repeated every ten (10) minutes; titrate to pain, do not exceed 200 mcg total regardless of route given.

Synchronized Cardioversion

Exami	inee: Date:			_
Exami	iner: Pass Pass/Counse		Fail	
Equip	ment:			
•	Pacing/Defibrillator pads PPE Midazolam (if in Fentanyl (if indi		d)	
	Cardiac monitor	cateuj		
Assess	sment/Treatment indicators:			
• Ur		raindica ess than		3) years
Proce			Yes	No
1.	Scene safety awareness/PPE usage			
2.	States indications/contraindications			
3.	Prepares/checks equipment			
4.	Checks the "five patient rights, plus one" Right patient Right medication Right dose Right dose Right route Right time Right time Allergies			
5.	Explains procedure			
6.	Applies defibrillation pads			
7.	Selects initial energy level setting at 100 joules or a clinically equivalent bipha energy level per manufacture guidelines (procedure may be repeated at 200, and 360 joules or a clinically equivalent biphasic energy level per manufacture guidelines)	300		
8.	Sets monitor/defibrillator to synchronized cardioversion mode			
9.	Makes certain all personnel are clear of patient			
10.	Presses and holds the shock button to cardiovert (stays clear of the patient u you are certain the energy has been delivered)	ntil		
11.	Assesses patient response and perform immediate defibrillation if the patient rhythm has deteriorated into pulseless ventricular tachycardia or ventricular fibrillation	.'s		

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12.	Considers Midazolam 2mg slow IV/IO or 2mg IN/IM if patient is awake and alert and exhibits signs of adequate tissue perfusion		
13.	Considers Fentanyl 50mcg IV/IO or 100mcg IN/IM to max of 200mcg for patient with complaint of pain and signs of adequate tissue perfusion		
14.	Reassess/Document:		
Notes			

Transcutaneous Cardiac Pacing

INDICATIONS

Symptomatic Bradycardia

CONTRAINDICATIONS

- Patient less than eight (8) years of age
- Asystole

CONSIDERATIONS

Consider sedative medication for conscious patients with signs of adequate tissue perfusion:

- MIDAZOLAM 2mg slow IV/IO push or via intranasal route
- **FENTANYL** 50mcg slow IV/IO over one (1) minute (initial dose)
 In five (5) minutes subsequent doses may be repeated titrating to pain; not to exceed 200mcg total via IV/IO routes

<u>OR</u>

• **FENTANYL** 100mcg total, via intranasal (IN) or intramuscular (IM) route If patient is medicated intranasally, 50mcg may be repeated every ten (10) minute; titrate to pain, do not exceed 200mcg total regardless of route given

Transcutaneous Cardiac Pacing

Exami	nee:	Date:		_
Exami	ner: P	ass Pass/Counsel	Fail	
Equip	ment:			
•	Pacing/defibrillator pads	 Midazolam (if indicate 	ed)	
•	PPE	 Fentanyl (if indicated)	
•	Cardiac monitor			
Assess	sment/Treatment indicators:			
•	<u>Indications</u> Symptomatic Bradycardia	 Patient less than age Asystole 		ears of
Proced	dure:		Yes	No
1.	Scene safety awareness/PPE usage			
2.	States indications/contraindications			
3.	Prepares/checks equipment			
4.	Checks the "five patient rights, plus one" Right patient Right medication Right dose Right route Right route Right time Allergies	ution		
5.	Explains procedure			
6.	Applies pacing pads			
7.	Starts pacing at lowest setting available on monitor of 60	until capture is noted at a rate		
8.	Assesses peripheral pulses to confirm correlation wi patient for signs of adequate tissue perfusion)	ith paced rhythm (reassesses		
9.	Determines lowest threshold by turning the output lost, and then turn it back up slightly until capture is capture)	•		
10.	Assesses peripheral pulses and confirm correlation (patient for signs of adequate perfusion)	with paced rhythm (reassesses		
11.	Considers Midazolam 2mg slow IV/IO or 2mg IN/IM and exhibits signs of adequate tissue perfusion	if patient is awake and alert		

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12.	Considers Fentanyl 50mcg IV/IO or 100mcg IN/IM to max of 200mcg for patient with complaint of pain and signs of adequate tissue perfusion	
13.	Reassess/Document:	
Notes		

Vagal Maneuvers (Valsalva)

INDICATIONS

Stable narrow complex tachycardias

RELATIVE CONTRAINDICATIONS

- Hypertension
- Suspected acute MI
- Suspected head/brain injury

CONSIDERATIONS

No considerations

Vagal Maneuvers (Valsalva) Skills Test

Exami	nee:	Date:			_
Exami	ner:	Pass Pass/Cou	nsel [Fail	
Equip	ment:				
•	Cardiac monitor		• 10	ml syringe	or straw
•	Sp0 ₂ monitor		• lc	e water or	cold wash
Assess	sment/Treatment indicators:				
	<u>Indications</u>		<u>C</u>	ontraindic	ations
• Sta	able narrow complex tachycardias		• H	lypertensio	on
			• S	uspected a	acute MI
			• S	uspected	
			h	ead/brain	injury
Proce	dure:			Yes	No
1.	Scene safety awareness/PPE usage				
2.	States indications/contraindications				
3.	Prepares/checks equipment				
	Checks the "five patient rights, plus one"				
	Right patient				
		Dose/Drug			
4.		ntegrity of packaging			
		larity of solution			
	_	xpiration Date			
	Allergies	Aprilation Bate			
	Have patient perform one of the following				
	a. Pinch nostrils together, close mo	-	ottis		
_	b. Bear down as if having a bowel n				
5.	c. Submerge face in water or apply	cold wet washcloth against face			
	(preferred method for infants)				
	d. Blow through straw or 10ml syrin				
6.	All procedures should be performed unti of ten (10) seconds has passed; consider	•	mum		
	Reassess/Document:	•			
	Patient				
_	Initial cardiac rate/rhythm				
7.	Subsequent cardiac rate/rhythm				
	 Medication administration 				
	Patient response/tolerance to information	tervention			
Notes:	:				
1					

References

Inland Counties Emergency Medical Agency Policies, Procedures and Protocol Manual. (2013). *Skills 10000 Series Protocols*.

National Registry of Emergency Medical Technicians. (2011). *EMT-Basic/EMT Psychomotor Exam*. Retrieved from https://www.nremt.org/nremt/about/psychomotor exam emt.asp.

National Registry of Emergency Medical Technicians. (2011). *Advanced Psychomotor Exam*. Retrieved from https://www.nremt.org/nremt/about/psychomotor_exam_advanced.asp.

Teleflex. (2014). *ARROW EZ-IO Intraosseous Vascular Access System: Competency Template (Annotated)*. Retrieved from http://www.teleflex.com/en/usa/ezioeducation/index.html on September 2, 2015.